## F COOPERATION TREATY

# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference CLEAN-F	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No. PCT/KR2004/003389	International filing date/day/month year 22 DECEMBER 2004 (22.12.2)				
nternational Patent Classification (IPC <b>D03D 15/00(2006.01)i</b>		·			
Applicant  KOLON INDUSTRIES, INC	et al				
This report is the international property and transfer Article 35 and transfer Article 35.	reliminary examination report, established ransmitted to the applicant according to At	by this International Preliminary Examining rticle 36.			
2. This REPORT consists of a total	of 4 sheets, including this	cover sheet.			
sheets of the de and/or sheets co Administrative I sheets which superior beyond the disclusion Supplemental B b. (sent to the Internation containing a sequence	ntaining rectifications authorized by this A (Instructions).  persede earlier sheets, but which this Authorized in the international application as fillox.	ority considers contain an amendment that goes led, as indicated in item 4 of Box No. I and the and number of electronic carrier(s))			
4. This report contains indications  Box No. I Basis of th  Box No. II Priority	e report	v inventive step and industrial applicability			
Boy No. IV Lack of u	L. A mints 25/2) with report to povelty, inventive step or industrial applicability:				
Box No. VI Certain de	ocuments cited Rects in the international application				
Box No. VIII Certain of	oservations on the international application	'			
Date of submission of the demand	Date of com	pletion of this report			
15 JUNE 2005 (1	<b>5.06.2005)</b> 04 J/	04 JANUARY 2006 (04.01.2006)			
Name and mailing address of the IPE.  Korean Intellectual Prope 920 Dunsan-dong. Seo-gr Republic of Korea	erty Office u. Daejeon 302-701. CHO.	Ho Jung			
Foogimile No. 82-42-472-7140	Telephone N	Telephone No. 82-42-481-5593			

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

nternational application No.

PCT/KR2004/003389

Box No.	1 Basis of the report		
	th regard to the language, this report is base erwise indicated under this item.	ed on the international application in the langu	age in which it was filed, unless
[Z		the original language into the following lang	uage English
نا	which is the language of a translation fur		
	international search (under Rules		
	publication of the international ap		
	publication of the international ap	tion (under Rules 55.2 and/or 55.3)	
	International prenimary examina	Holf (under Rules 33.2 und/or 33.3)	
to th	n regard to the elements of the international e receiving Office in response to an invitation execution this report):  the international application as originally for the international application and the international application app	application. this report is based on (replaceme on under Article 14 are referred to in this reor iled/furnished	ent sheets which have been furnished et as "originally filed" and are not
	the description:		
ш	the description: pages		as originally filed/furnished
	pages*	received by this Authority on	
	pages*	received by this Authority on	
	•		
	the claims:		as originally filed/furnished
	nages*	as amended (together v	with any statment) under Article 19
	nages*	received by this Authority on	
	pages*	received by this Authority on	
	the drawings:		as originally filed/furnished
	pages*	received by this Authority on	
	pages*	received by this Authority on	
3.	The amendments have resulted in the can	e(s) - see Supplemental Box Relating to Sequencellation of:	
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	the sequence listing (specify):		
	any table(s) related to sequence list	ting (specify):	
4.	made, since they have been considered to (Rule 70.2(c)).  the description, pages the claims, Nos.  the drawings, sheets the sequence listing (specify):	ne of) the amendments annexed to this report a go beyond the disclosure as filed, as indicated ng (specify):	in the Supplemental Box
* If iten	ı 4 applies, some or all of those sheets may	be marked "superseded."	

40/583895 AP3 Rec'd PCT/PTO 22 JUN 2005

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Claims

Claims

Claims

PCT/KR2004-003389

YES

NO

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement					
1. Statement	Claims	1-10	YES		
Novelty (N)	Claims	None	N()		
Inventive step (IS)	Claims	1-10	<u>Y</u> ES		

None

1-10

None

2. Citations and explanations (Rule 70.7)

Industrial applicability (IA)

The following documents have been considered for the purpose of this report:

DI: US 6632504 BI (14 OCTOBER 2003)

D2: US 5935883 A (10 AUGUST 1999)

D3: JP 9119067 A (6 MAY 1997)

D1 discloses a nonwoven web which can be readily converted to an apertured web by stretching. In its initial non-apertured state, the web comprises a plurality of multicomponent fibers comprising at least two thermoplastic polymer components arranged in at least first and second separate continuous structured domains. The frangible bond sites are structured and arranged to readily rupture when subjected to tensile stress to form discrete, spaced-apart apertures in the nonwoven fabric.

D2 discloses a superfine microfiber web comprising split fibers of meltbrown fibers, said split fiber web comprising first split microfibers of a first polymeric composition and second split microfibers of a second polymeric composition, wherein at least one of the polymeric compositions is hydrophilic.

D3 discloses a wiping cloth comprising a knitted or a woven fabric composed of polyester ultrafine fiber filaments having less than 0.1 denier single filament sized without substantially containing a hydrophobic substance.

The claimed invention relates to a cleansing polyester fabric, which comprises a polyester multifilament consisting of ultra yarns(monofilament fibrils) of 0.001 to 0.1 deniers or its false twist yarn as a warp, and a false twisted mixing yarn consisting of said polyester multifilament and a high shrinkable polyester multifilament with 10-50% of shrinkage rate in boiling water as a weft.

(Continued on Supplemental Sheet.)

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#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box No. V

The technical feature of the present invention is that a cleansing polyester fabric comprises (i) a polyester multifilament of ultra yarns or its false twist yarn as a warp and (ii) a false twisted mixing yarn of a polyester multifilament and a high shrinkable polyester multifilament as a weft. Said cleansing fabric is useful as a makeup cleansing fabric or as a wiping fabric for fine products and optical devices.

However, none of the prior art documents discloses a cleansing polyester fabric comprising a polyester multifilament false twist yarn as a warp and a false twisted mixing yarn as a weft. Said cleansing fabric in this invention would not have been obvious to a person skilled in the art.

Therefore, claims 1-10 meet the requirements of novelty, inventive step and industrial applicability under PCT Article 33(2)-(4).